18 DEC 90

Sterling

Federal office building will require areas with separate ventilation in smoking areas from 1990 on.

ave. active smokers nicotine dose : 900µg nic./cig. (Canadian cig.) !

Kirk, ETR:

18 m³ - chambers, painted and carpeted
sniff boxes
Sensory evaluation of aged SS
exhaled MS

perception of odor declines with incr. duration of exposure
" " irritation incr.

Baker:

$t_{1/2}$: NO_2 > CO = CO_2 > NO > PM > nicotine
slowest — fastest

$NO \xrightarrow{k} NO_2$ k = 5.5×10^{10} $cm^6 mol^{-2} s^{-1}$ in ETS, 20°C
7.3×10^{9} as gasphase, 20°C
4.3×10^{10} as MS gasphase, 20°C
} x10 (= catalysis?)

Eatough:

nic: - specific for TS
- mainly in GVP
- Pyr./nic. may decay at a faster rate than other ETS components esp. RSP
--> potential underestimate of dose

nic
3-ethenylpyridine
pyridine
myosmine
(decr. conc. in ETS) } all in GVP
mainly in GVP

PP but not GVP nic. could be suitable for monitoring, but danger of sampling artifacts (reequilibration)

Piaget: 2nd part of study (1st part presented in Tokyo)
HAF can determine solanesol ← is favoured in future
[THE hat schlechte Graphik f. Dias !]

5

Wednesday 19th June pm

Session 10

Indoor Air Chemistry Lecture Theatre 334

Chairman — Dr M. J. Suess, WHO, Denmark

14.00 Environmental Asbestos
— A P Rood, Health and Safety Executive, London, UK

14.20 Pathways and behaviour of semi-volatile chemicals in enclosed spaces
— I L Gebefuegi and F Korte, Institut fuer Oekologische Chemie, FRG

14.40 Levels of toxic heavy metals (Hg, Cd, As) in biofluids and tissues of staff in academic chemical laboratories and correlation to the environment quality
— M Kouppans, A Calokerinos, A Koutsodimou and P. A. Siskos, University of Athens, Greece

15.00 Odour reduction by biological soil filters
— B Berglund, U Berglund and L Lundin, University of Stockholm, Sweden

15.20 **Tea Interval**

Chairman — R. T. Commins, Maidenhead, UK

15.40 State-of-the-Art Indoor Air Quality Technology
— H E Burroughs, ASHRAE Atlanta, USA

16.00 A study of indoor radon levels in dwellings
— G Jonsson, University of Lund, Sweden

16.40 Sources and concentrations of formaldehyde in household dusts
— V M Brown, D R Crump and D Gardiner, Department of the Environment, UK

17.00 Close of Session

CHANGES TO PROGRAMME AS AT 6 JUNE 1988

Tuesday 14th June am - Session 2 - Lecture Theatre 220:

(Shanmuganandan paper withdrawn)

12.00 Kirk et al. paper

Tuesday 14th June am - Session 4 - Lecture Theatre 334

(Walkinshaw VOCs paper withdrawn)

11.50 Verhoeff et al. paper
12.10 Flannigan et al. paper

Tuesday 14th June pm - Session 5 - Lecture Theatre 220

(Kuehr paper withdrawn)

17.20 Arciti paper
17.40 Schwartz & Balter paper

Tuesday 14th June pm - Session 6 - now in Lecture Theatre 334

(Hansen et al. paper withdrawn)

14.00 Tsani-Bazaca paper
14.25 Laxen et al. paper
14.50 van Heugten paper

(Aghi paper withdrawn)

17.00 Close of Session

Wednesday 15th June am - Session 7 - Lecture Theatre 220

(Rossiter paper withdrawn)

10.05 Meta-Analyses on Passive Smoking & Lung Cancer.
H. Letzel, E. Blümner & K. Überla, ISB, Munchen, FRG

Wednesday 15th June am - Session 8 - Lecture Theatre 334

(Petrás paper withdrawn)

11.40 Wolkoff paper
12.00 Close of Session

Wednesday 15th June pm - Session 9 - Lecture Theatre 220

(Kollander paper withdrawn)

14.00 R.E. Bell et al. paper (from 17.20)

(Waldner-Sander paper withdrawn)

14.20 A Practical Control System for Indoor Pollution.
P. Fleming, Horiba Instruments Ltd., UK

17.30 Close of Session

18 DEC 90

2501670907

Source: https://www.industrydocuments.ucsf.edu/docs/xyhl0000

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14. Jun. 88

— 1 —

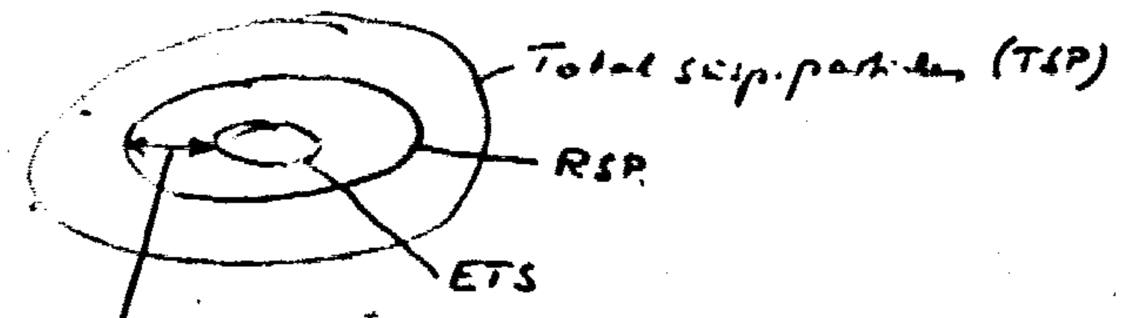
Pritchard:

- local deposition in various parts of the resp. tract is an important determinant of the systemic dose and the biol. effects
  differential removal speed in the trachea and lungs

Ogden:

RJR: 2 groups
  1 related to ESS, lab studies ← Ogden's group
  1 " " ETS, field studies

Potential tracers of ETS: nicotine – due to its nature not representative for any other SS component (not in GVP, PP, redistribution phenomena)
RSP
UV-PM
CO
NO_x
arom. hydrocarbons



UV-PM (not clear, which compound is measured): fluoropore filtration
Columnular HPLC
detection at 323 nm

Solanesol;
- similar conc. of solanesol and nic. in tobacco leaf (up to 4% weight of dry leaf)
- in PP of ETS aerosol
- no equil. shift during sampling
- unique to TS in an indoor environment

Sampling at 1-2 l/min
  1-2 h sampling
  derivatization (pyridine + BSTFA)
  GC-FID
  easily decomposes at high temp. ? major analytical problem, occurs also during smoking
  DL: 200 pg
    0.3 µg/m³

Solanesol/RSP ratio recommended as indicator of ETS contribution to indoor air atmosphere
  free flowers e.g.: 3.0
  1R4F : 4.0

Crosscontam.: potato
  eggplant
  nightshade
  tomato
  pepper

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